

U.S. Department of Commerce, Patent and Trademark Office

Docket No.

Serial No.

APPM/3984

Unknown

LIST OF RELEVANT ART CITED BY APPLICANT

Applicant

(Use several sheets if necessary)

Ponnekanti, et al.

Filing Date

Group

Herewith

Unknown



U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
<i>Ku</i>	AA	4,785,962	11/22/88	Toshima			
	AB	4,819,167	04/04/89	Cheng et al.			
	AC	5,120,019	06/09/92	Davis, Jr.			
	AD	5,133,284	07/28/92	Thomas et al.			
	AE	5,226,632	07/13/93	Tepman et al.			
	AF	5,275,303	01/04/94	Szalai			
	AG	5,302,209	04/12/94	Maeda et al.			
	AH	5,363,872	11/15/94	Lorimer			
	AI	5,494,494	02/27/96	Mizuno et al.			
	AJ	5,505,779	04/09/96	Mizuno et al.			
	AK	5,747,880	05/05/98	Havemann, et al.			
	AL	5,838,121	01/17/98	Fairbairn, et al			

Foreign Patent Documents

								Translation	
		Document Number	Date	Country	Class	Subclass	Yes	No	
	AM								
	AN								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Ku</i>	AO	Z. Shiller and S. Dubowski, Robot Path Planning with Obstacles, Actuator, Gripper, and Payload Constraints, International Journal of Robotics Research, Vol. 8, No. 6, December 1989, pp. 3-18.
	AP	Z. Shiller and H.H. Lu, Computation of Path Constrained Time Optimal Motions With Dynamic Singularities, Transactions of the ASME, Journal of Dynamic Systems, Measurement, and Control, Vol. 114, March 1992, pp. 34-40.
	AQ	U.S. Patent Application Serial No. 08/751,524, Fairbairn et al., filed 11/18/96 <i>6/58510</i>

Examiner

Date Considered

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U.S. Department of Commerce, Patent and Trademark Office

Docket No.

Serial No.

APPM/1571

08/751,485

LIST OF RELEVANT ART CITED BY APPLICANT

Applicant

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MAYDAN et al.

Filing Date

Group

11/18/96

Unknown

U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
<i>Ku</i>	AA	5,844,195	12/01/98	Fairbairn et al.			
	AB	5,847,443	12/08/98	Cho et al.			
	AC	5,855,681	01/05/99	Maydan et al.			
	AD	5,858,457	01/12/99	Brinker et al.			
	AE	5,902,088	05/11/99	Fairbairn et al.			
	AF	5,905,302	05/18/99	Lane et al.			
	AG	5,909,994	06/08/99	Blum et al.			
	AH	5,911,834	06/15/99	Fairbairn et al.			
	AI	5,961,269	10/05/99	Kroeker			
	AJ						
	AK						

Foreign Patent Documents

								Translation	
		Document Number	Date	Country	Class	Subclass	Yes	No	
	AL								
	AM								
	AN								
	AO								
	AP								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Ku</i>	AR	U.S. Patent Application Serial No. 08/752,463, Altwood, et al., filed 11/18/96	6082050
	AS	U.S. Patent Application Serial No. 08/749,614, Sunder, filed 11/18/96	6724318
	AT	U.S. Patent Application Serial No. 08/749,613, Fairbairn, et al., filed 11/18/96	6077151

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

Complete if Known

Application Number	09/502,126
Filing Date	February 10, 2000
First Named Inventor	Hari Ponnekanti et al.
Group Art Unit	1762
Examiner Name	Bret Chen
Attorney Docket Number	016301-040300US

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
ku	0001	4,315,705		Flint	02/16/1982	
	0002	4,518,848		Weber	05/21/1985	
	0003	6,051,101		Ohtani et al.	04/18/2000	
	0004	5,788,868		Itaba et al.	08/04/1998	
	0005	5,730,574		Adachi et al.	03/24/1998	
	0006	5,571,325		Ueyama et al.	11/05/1996	
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	0010	5,846,327		Kawamoto et al.	12/08/1998	
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	0013	6,080,969		Goto et al.	06/27/2000	
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	0020	6,015,503		Butterbaugh et al.	01/18/2000	
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	0022	5,706,890		Sloan et al.	01/13/1998	
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	0024	5,935,768		Biche et al.	08/10/1999	
	0025	5,766,824		Batchelder et al.	06/16/1998	
	0026	5,651,823		Parodi et al.	07/29/1997	
	0027	5,553,994		Biche et al.	09/10/1996	
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	0029	5,392,989		Hurtig	02/28/1995	
	0030	5,885,661		Batchelder	03/23/1999	
	0031	5,798,140		Parodi et al.	08/25/1998	
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	0033	5,289,222		Hurtig	02/22/1994	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 4

Complete if Known

Application Number	09/502,126
Filing Date	February 10, 2000
First Named Inventor	
Group Art Unit	1762
Examiner Name	Bret Chen
Attorney Docket Number	016301-040300US



U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
u	0034	5,810,993		Keller et al.	09/22/1998	
	0035	4,765,815		Danzuka et al.	08/23/1988	
	0036	5,281,320		Tumer et al.	01/25/1994	
	0037	6,110,280		Ebert	08/29/2000	
	0038	6,177,133	B1	Gurer et al.	01/23/2001	
	0039	4,507,078		Tam et al.	03/26/1985	
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	0047	5,611,886		Bachman et al.	03/18/1997	
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	0054	6,063,190		Hasebe et al.	05/16/2000	
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	0061	6,054,181		Nanbu et al.	04/25/2000	
	0062	5,725,664		Nanbu et al.	03/10/1998	
	0063	5,565,034		Nanbu et al.	10/15/1996	
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	0065	5,772,764		Akimoto	06/30/1998	
	0066	5,587,127		Carlson	12/24/1996	
✓	0067	5,312,487		Akimoto et al.	05/17/1994	

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 4

Complete if Known

Application Number	09/502,126
Filing Date	February 10, 2000
First Named Inventor	
Group Art Unit	1762
Examiner Name	Bret Chen
Attorney Docket Number	016301-040300US

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
W	0068	5,250,114		Konishi et al.	10/05/1993	
	0069	5,151,871		Matsumura et al.	09/29/1992	
	0070	4,277,525		Nakayama et al.	07/07/1981	
	0071	5,785,759		Sago et al.	07/28/1998	
	0072	5,660,634		Fujiyama et al.	08/26/1997	
	0073	5,707,687		Ueda et al.	01/13/1998	

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FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)			
	0074						
	0076						

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 4

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Application Number	09/502,126
Filing Date	February 10, 2000
First Named Inventor	
Group Art Unit	1762
Examiner Name	Bret Chen
Attorney Docket Number	016301-040300US



OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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